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INDEX VIII  
TO THE  
LITERATURE  
OF  
AMERICAN ECONOMIC ENTOMOLOGY  
January 1, 1945 to December 31, 1947

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Compiled by

INA L. HAWES

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AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS  
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## INDEX VIII TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

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Index VIII to the Literature of American Economic Entomology for the three-year period January 1, 1945 to December 31, 1947, inclusive, is a continuation of the Banks' Index, 1905-1914, and of the Colcord Indexes, 1915-1939. These indexes are modified extensions of the Bibliography of American Economic Entomology (Pts. I-V by Samuel Henshaw, Pts. VI-VIII by Nathan Banks) published, 1889-1905, by the U. S. Department of Agriculture, Division (or Bureau) of Entomology. Index VII, 1940-1944, and the present index were prepared as projects of the U. S. Department of Agriculture Library.

The manuscripts of preceding indexes were sent to a Scientific Editor appointed by the American Association of Economic Entomologists. This procedure placed a great burden on the Editor and delayed the final preparation of the manuscript. Therefore, at its New York Meeting in December, 1948, the Association authorized the incoming President (A. M. Boyce) to appoint a committee to supervise the preparation of Index VIII. The committee appointed consisted of Dr. C. F. W. Muesebeck, Chairman, Dr. B. A. Porter, and Ina L. Hawes.

It was agreed that the increasing volume of published matter, together with greater costs of preparation and publication, necessitated more discrimination in the type of material included and in the headings used. It was decided to omit: articles in farm papers or student publications, material appearing regularly as columns, all articles dealing with earthworms, nematodes, barberry eradication or white-pine blister rust, extension publications other than annual reports, bulletin and circular series (or equivalent titles); material on genetics (except books or monographs) unless it concerned an economic species, articles dealing with foreign insect species or control problems, except where some connection is made with the countries covered by the Index. In indexing taxonomic papers a single entry was to be made for revisions or geographic reviews of groups, and new species were not to be included unless the articles indicated probable economic importance. The compiler was authorized to use her discretion in cases where too strict an application of these decisions would affect the usefulness of the Index.

The geographic range of Index VIII is continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone. Some material published in Cuba, Puerto Rico and Hawaii has also been included. Scientific names of insects and other subjects are arranged alphabetically, references are arranged alphabetically by author under the insect names and chronologically under each author. Authorities for all insect names are included.

The references have been made as short as possible and should be intelligible after reading the following explanation and referring, when necessary, to the list of abbreviations. "B" indicates bulletin, "C" circular, "M" memoir, "PB" press bulletin, "R" report, and "TB" technical bulletin, except when in titles. Publications of the various agricultural experiment stations are referred to simply by State abbreviation and number of bulletin, circular or report - e.g., "Wash. B. 497" means Washington Agricultural Experiment Station Bulletin 497; "Neb. Ext. C. 1507 rev." means Nebraska Extension Service Circular 1507 revised. The Cornell Agricultural Experiment Station Bulletins are referred to as "N. Y. (C.) B.", the Geneva Agricultural Experiment Station Bulletins as "N. Y. (G.) B." the bulletins of the U. S. Department of Agriculture are "USDA B.", the Farmers' Bulletins are "USDA FB," the Yearbook

articles are "USDA YB," the Proceedings of the U. S. National Museum are abbreviated to "PUSNM," and the Bulletins of the American Museum of Natural History of New York are "BAMNH."

The form of reference used is: the first figure after "B.", "R.", etc. indicates the number of the bulletin or report, the number following the colon is the page, which is followed by a comma and the year of publication. In periodical citations the volume is given but the number in the volume is usually omitted unless each number is separately paged or unless the work indexed is a supplement to a specific number.

Examples. Mosq. News 7.11-13, 1947, Agr. Chem. 2(8).18, 1947. When a publication for one year is published in another year both dates are given, as Hawaii R. f. 1944/46.74,98-99, 1947. When published the same year only one date is given, e.g. a publication for 1946 published in 1946 is listed as follows Conn. R. f. 1945/46 7-10, 41.

Marginal letters or symbols have the following significance. "b" indicates that the article contains a bibliography, "n" that a new description is included and that the author is the describer unless otherwise stated, "i" that the article contains illustrations, "k" that a key is given. Starred (\*) names are those approved by the Committee on Common names of the American Association of Economic Entomologists.

Insect names and authorities for them have been checked in the Division of Insect Identification of the U. S. Bureau of Entomology and Plant Quarantine. The insecticide groups were checked by the Division of Insecticide Investigations. Other Divisions of the Bureau have been consulted for advice in their subject fields.

The assistance of Miss Ethel Coon in the preparation of the Index is gratefully acknowledged.

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# LIST OF ABBREVIATIONS

- Abs. -- Abstract  
 Acad. -- Academic, Academy  
 Acoust. -- Acoustical  
 Activ. -- Activity, Activities  
 Adm. -- Administrative, Administration  
 Adv. -- Advancement, Advances  
 Advoc. -- Advocate  
 Aff. -- Affairs  
 Agr. -- Agriculture, Agricultural, Agri-  
 culturist  
 Agron. -- Agronomy, Agronomia, Agro-  
 nomica  
 Ala. -- Alabama  
 All. -- Allied  
 Alphabet. -- Alphabetical  
 Amer. -- American, Americana  
 Amers. -- Americas  
 An. -- Anaes  
 Anal. -- Analyst, Analysis, Analytical  
 Anat. -- Anatomy  
 Anim. -- Animal  
 Ann. -- Annals, Annual  
 Anthrop. -- Anthropology  
 Apic. -- Apiculture, Apicultural  
 App. -- Appendix  
 Appl. -- Applied, Application  
 Arbor. -- Arboriculture, Arboriculturist  
 Arch. -- Archives  
 Ariz. -- Arizona  
 Ark. -- Arkansas  
 Asist. -- Asistencia  
 Asoc. -- Asociación  
 Assoc. -- Association, Associated  
 Assocs. -- Associations  
  
 B. -- Bulletin (except in title)  
 BAMNH -- Amer. Mus. Nat. Hist. Bul.  
 B. C. -- British Columbia  
 Bact. -- Bacteria, Bacteriology  
 Bank. -- Banker, Banking  
 Bd. -- Board  
 Benef. -- Beneficial, Beneficencia  
 Bibliog. -- Bibliography  
 Bien. -- Biennial  
 Bimo. -- Bimonthly  
 Biochem. -- Biochemical, Biochemistry  
 Biog. -- Biography  
 Biol. -- Biology  
 Biother. -- Biotherapy  
 Bklyn. -- Brooklyn  
 Bldg. -- Building  
 Bldgs. -- Buildings  
 Bol. -- Boletin  
 Bost. -- Boston  
 Bot. -- Botany, Botanical  
 Breed. -- Breeder, Breeding, Breeders  
 Brief. -- Brieflet  
 Bul. (when title) -- Bulletin  
 Bur. -- Bureau  
  
 C. -- Circular (except in title)  
 C. (when after N. Y.) -- Cornell  
 Cal. -- California  
 Cám. -- Cámara  
 Can. -- Canada, Canadian, Canadienne  
 Cat. -- Catalog  
 Cattlem. -- Cattleman  
 Cell. -- Cellular  
 Cent. -- Center, Central, Century  
 Certif. -- Certificate  
 Chem. -- Chemical, Chemistry  
 Chemother. -- Chemotherapy  
 Chemurg. -- Chemurgic  
 Child.-s--Children, Children's  
 Chron. -- Chronicle  
 Cien. -- Ciencia  
 Cient. -- Cientifica  
 Cir. (when in title) -- Circular  
 Cit. -- Citrus, Citriculture  
 Citrog. -- Citrograph  
 Clem. -- Clemson  
 Climatol. -- Climatology  
 Clin. -- Clinical  
 Co. -- County, Company  
 Col. -- College  
 Colo. -- Colorado  
 Color. -- Colorist  
 Collect. -- Collection, Collecting,  
 Collections  
 Com. -- Commercial, Commerce, Com-  
 mittee, Commercial, Comercio  
 Commod. -- Commodity  
 Commun. -- Community, Communication,  
 Communications  
 Comn. -- Commission  
 Comnr. -- Commissioner  
 Comnrs. -- Commissioners  
 Comp. -- Composition  
 Compar. -- Comparative  
 Conf. -- Conference  
 Confs. -- Conferences  
 Confect. -- Confectioner, Confectioners,  
 Confectionery  
 Confed. -- Confederación  
 Cong. -- Congress, Congreso  
 Conn. -- Connecticut  
 Conserv. -- Conservation, Conservationist  
 Consol. -- Consolidated  
 Consum. -- Consumer, Consumers  
 Constr. -- Construction  
 Contrib. -- Contribution  
 Conv. -- Convention  
 Coop. or Co-op. -- Cooperation, Cooper-  
 ator, Cooperative  
 Corp. -- Corporation  
 Corresp. -- Correspondence, Corre-  
 spondenz  
 Cranb. -- Cranberry  
 Cult. -- Culture, Cultivated, Cultivation  
 Cytol. -- Cytology  
  
 D. C. -- District of Columbia  
 Dairym. -- Dairyman  
 Del. -- Delaware  
 Demon. -- Demonstration  
 Dept. -- Department  
 Dermat. -- Dermatology  
 Descr. -- Description, Descriptive  
 Destr. -- Destruction, Destructive  
 Develop. -- Development  
 Digest. -- Digestion, Digestive  
 Dir. -- Director, Directory  
 Dis. -- Disease, Diseases  
 Discuss. -- Discussion  
 Diss. -- Dissertation  
 Dist. -- District  
 Distrib. -- Distribution  
 Div. -- Division  
 Doc. -- Document, Documentary  
 Dom. -- Domestic  
 Drug. -- Druggist  
  
 East. -- Eastern  
 Ec. -- Economic

Ecol. -- Ecology, Ecological  
 Ed. -- Edition  
 Educ. -- Education, Educational  
 Elect. -- Electric, Electrical, Electricity  
 Electrifi. -- Electrification  
 Elem. -- Elementary  
 Encyclop. -- Encyclopedia  
 Enferm. -- Enfermedade, Enfermedades  
 Eng. -- English  
 Engin. -- Engineer, Engineering  
 Ent. -- Entomology, Entomologist  
 Entomol. -- Entomological  
 Epidemiol. -- Epidemiology  
 Equip. -- Equipment  
 Erad. -- Eradication  
 Esc. -- Escola, Escuela  
 Estab. -- Establish, Establishment  
 Even. -- Evening  
 Exch. -- Exchange  
 Exhib. -- Exhibit, Exhibition  
 Exped. -- Expedition, Expeditionary  
 Explor. -- Exploration, Explorations  
 Expt. -- Experiment, Experimental  
 Expts. -- Experiments  
 Ext. -- Extension  
 Exterm. -- Exterminate, Extermination  
 Extr. -- Extract

Facul. -- Faculty  
 Farm. -- Farmer, Farming  
 Fed. -- Federal  
 Feed. -- Feeding  
 Fert. -- Fertilizer  
 Financ. -- Financial  
 Fitopat. -- Fitopatologia  
 Fla. -- Florida  
 Flor. -- Florist  
 For. -- Forest, Forester, Forestry  
     Forests, Forêts  
 Found. -- Foundation  
 Frutic. -- Fruticultura  
 Fund. -- Fundamental, Fundamentals  
 Fungic. -- Fungicide, Fungicides

G. (when after N. Y.) -- Geneva  
 Ga. -- Georgia  
 Ganad. -- Ganaderia  
 Gard. -- Garden, Gardening, Gardener,  
     Gardeners  
 Gaz. -- Gazette, Gazetteer  
 Gen. -- General  
 Genet. -- Genetics  
 Gent. -- Gentleman  
 Geog. -- Geographic, Geographical  
 Geol. -- Geology, Geological  
 Glad. -- Gladiolus  
 Gov. -- Governor  
 Govt. -- Government  
 Grad. -- Graduate  
 Grow. -- Grower, Growers, Growing

Handb. -- Handbook  
 Helminth. -- Helminthology  
 Hem. -- Hemiptera  
 Herdsm. -- Herdsman  
 Hered. -- Heredity  
 Hist. -- Historical  
 Histol. -- Histology  
 Hort. -- Horticultural  
 Hosp. -- Hospital  
 Husb. -- Husbandry  
 Hyg. -- Hygiene

Ida. -- Idaho  
 Ident. -- Identical, Identification  
 Ill. -- Illinois  
 Illum. -- Illuminating  
 Illus. -- Illustration, Illustrated  
 Imag. -- Imago, Imaginal  
 Immigr. -- Immigration  
 Immunol. -- Immunology  
 Imp. -- Imperial  
 Impl. -- Implement  
 Import. -- Imported  
 Impound. -- Impounded  
 Impr. -- Improvement  
 Ind. -- Indiana  
 Indus. -- Industry, Industrial  
 Infect. -- Infection  
 Inform. -- Information, Informes  
 Ing. -- Ingeniero  
 Injur. -- Injurious  
 Inq. -- Inquiry  
 Ins. -- Insect  
 Insectic. -- Insecticide, Insecticides,  
     Insecticidal  
 Insp. -- Inspection  
 Inst. -- Institute  
 Instr. -- Instrument  
 Int. -- Internal, Interior  
 Interamer. -- Interamericana  
 Internatl. -- International  
 Introd. -- Introduction  
 Invest. -- Investigation  
 Irrig. -- Irrigation  
 Isl. -- Island

J. -- Journal  
 Jr. -- Junior  
 Judg. -- Judgment  
 Kans. -- Kansas  
 Ky. -- Kentucky

La. -- Louisiana  
 Lab. -- Laboratory  
 Leaf. -- Leaflet, Leaflets  
 Leg. -- Legal, Legislation, Legislative,  
     Legislature  
 Legum. -- Leguminous  
 Let. -- Letter  
 Libr. -- Library  
 Ltd. -- Limited  
 Lumberm. -- Lumberman

M. -- Memoir (except in title)  
 Mach. -- Machinery  
 Mag. -- Magazine  
 Mal. -- Malady, Maladie  
 Malar. -- Malaria, Malarial, Malariology  
 Mammal. -- Mammalogy  
 Man. -- Manual  
 Mangt. -- Management  
 Mar. -- Marine  
 Marit. -- Maritime  
 Mater. -- Material, Materials  
 Math. -- Mathematics, Mathematical  
 Md. -- Maryland  
 Mech. -- Mechanism  
 Med. -- Medicine, Medica  
 Mem. (when in title) Memoirs  
 Memo. -- Memorandum  
 Met. -- Meteorology  
 Metall. -- Metallurgy, Metallurgical  
 Mex. -- Mexico  
 Mfd. -- Manufactured

Mfg. -- Manufacturing  
 Mfr.,-s. -- Manufacturer, Manufacturers  
 Mich. -- Michigan  
 Microbiol. -- Microbiology  
 Microent. -- Microentomology  
 Microg. -- Micrographical, Micrography  
 Microorgan. -- Microorganism  
 Micros. -- Microscopic, Microscopical  
 Mid. -- Midland  
 Mil. -- Military  
 Mill. -- Miller, Millers, Millering  
 Mimeo. -- Mimeograph  
 Min. -- Minister, Ministry, Ministère,  
 Mineral

Minn. -- Minnesota  
 Misc. -- Miscellaneous, Miscelanea  
 Miss. -- Mississippi  
 Mkt. -- Market  
 Mktg. -- Marketing  
 Mktr. -- Marketer  
 Mo. -- Missouri  
 Mod. -- Modern  
 Monog. -- Monograph  
 Mont. -- Montana  
 Month. -- Monthly  
 Morph. -- Morphology  
 Mosq. -- Mosquito, Mosquitoes  
 Mtg. -- Meeting  
 Mtgs. -- Meetings  
 Munic. -- Municipal  
 Mus. -- Museum  
 Mycol. -- Mycology

N. Amer. -- North America  
 N. B. -- New Brunswick  
 N. C. -- North Carolina  
 N. Dak. -- North Dakota  
 N. Eng. -- New England  
 N. H. -- New Hampshire  
 N. J. -- New Jersey  
 N. Mex. -- New Mexico  
 N. O. -- New Orleans  
 N. S. -- Nova Scotia  
 N. Y. -- New York  
 N. Y. (C.) -- New York (Cornell)  
 N. Y. (G.) -- New York (Geneva)  
 Nac. -- Nacional, Nacionales  
 Nat. -- Naturalist, Natural, Naturaliste,  
 Naturalrae  
 Natl. -- National  
 Nav. -- Naval  
 Neb. -- Nebraska  
 Neotrop. -- Neotropic, Neotropical  
 Neurol. -- Neurology  
 Neurophysiol. -- Neurophysiology  
 Nev. -- Nevada  
 No. -- North, Number  
 Nomencl. -- Nomenclature  
 North. -- Northern  
 Northeast. -- Northeastern  
 Northw. -- Northwest  
 Northwest. -- Northwestern  
 Nos. -- Numbers  
 Not. -- Notice, Notulae  
 Nov. -- Novitates  
 Nurs. -- Nursing, Nursery, Nurseries  
 Nurserym. -- Nurseryman  
 Nutr. -- Nutrition, Nutritional

Observ. -- Observation  
 Occas. -- Occasional  
 Occup. -- Occupation

Oceanog. -- Oceanographic  
 Off. -- Office, Official  
 Ofic. -- Oficial  
 Okla. -- Oklahoma  
 Oper. -- Operation, Operative  
 Ont. -- Ontario  
 Ophth. -- Ophthalmology  
 Optic. -- Optical  
 Orch. -- Orchard  
 Oreg. -- Oregon  
 Organ. -- Organic, Organism, Organiza-  
 tion  
 Orig. -- Original  
 Ornament -- Ornamental  
 Ornith. -- Ornithology

P. -- Proceeding  
 P. R. -- Press Bulletin  
 P. R. -- Puerto Rico  
 P.U.S.N.M. -- U. S. Natl. Mus. Proc.  
 Pac. -- Pacific  
 Paleont. -- Paleontology  
 Pam. -- Pamphlet  
 Pan Amer. -- Pan American  
 Parasit. -- Parasitism, Parasitology  
 Pat. -- Patent, Patents  
 Path. -- Pathology  
 Patol. -- Patologia  
 Pa. -- Pennsylvania  
 Ped. -- Pediatric  
 Perm. -- Permanent  
 Petrol. -- Petroleum  
 Pharm. -- Pharmacy, Pharmaceutical,  
 Pharmacology, Pharmacist  
 Phil. -- Philosophy, Philosophical  
 Phila. -- Philadelphia  
 Photog. -- Photography  
 Phys. -- Physical  
 Physiol. -- Physiology  
 Phytopath. -- Phytopathology  
 Plan. -- Planning  
 Pollut. -- Pollution  
 Polytech. -- Polytechnic  
 Pom. -- Pomology, Pomological  
 Pop. -- Popular  
 Poult. -- Poultry  
 Poultrym. -- Poultryman  
 Pract. -- Practice, Practical  
 Pred. -- Predator, Predators  
 Prelim. -- Preliminary  
 Pres. -- President  
 Preserv. -- Preservation, Preservative  
 Prev. -- Prevention, Preventive  
 Prob. -- Problem, Problems  
 Prod. -- Produce, Producer, Producers,  
 Product, Products, Produc-  
 tion, Productive  
 Prof. -- Professional  
 Prog. -- Progress, Progressive  
 Proj. -- Project  
 Promot. -- Promoting  
 Protect. -- Protection, Protective  
 Prov. -- Province  
 Provs. -- Provinces  
 Psychol. -- Psychology  
 Pub. -- Public  
 Pubs. -- Publications

Quantit. -- Quantitative  
 Quar. -- Quarantine  
 Quart. -- Quarter, Quarterly

R. -- Report (except in title), Rapport  
 R. I. -- Rhode Island  
 Rec. -- Record  
 Reclam. -- Reclamation  
 Recom. -- Recommendation  
 Reconstr. -- Reconstruction  
 Ref. -- Reference  
 Refor. -- Reforestation  
 Refrig. -- Refrigeration, Refrigerating  
 Region. -- Regional  
 Registr. -- Registration  
 Regulat. -- Regulatory, Regulation  
 Relat. -- Relation, Relative, Relating,  
           Related  
 Repub. -- Republic  
 Res. -- Research  
 Repr. -- Reprint  
 Reserv. -- Reservation  
 Resist. -- Resistance  
 Rev. -- Review, Revision, Revista  
 Roy. -- Royal  
 Rpt. -- Report  
 Rptr. -- Reporter  
 Rpts. -- Reports  
 Rur. -- Rural, Ruralist  
 Ry. -- Railway  
  
 S. C. -- South Carolina  
 S. Dak. -- South Dakota  
 Salub. -- Salubridad  
 Sanid. -- Sanidad  
 Sanit. -- Sanitary, Sanitation, Sanitarian  
 Sat. -- Saturday  
 Saskatch. -- Saskatchewan  
 Sched. -- Schedule  
 Sci. (except alone) -- Science, Scientists  
 Sec. -- Secretary  
 Sect. -- Section  
 Seedsman. -- Seedsman  
 Select. -- Selection, Selected, Selective  
 Ser. -- Series  
 Seric. -- Sericulture  
 Serv. -- Service, Serving  
 Sess. -- Session  
 Ship. -- Shipper  
 Silvic. -- Silviculture  
 Smithsn. -- Smithsonian  
 So. -- South  
 Soc. -- Social, Society  
 South. -- Southern  
 Southeast. -- Southeastern  
 Southw. -- Southwest  
 Sp. -- Special  
 Sportsman. -- Sportsman  
 St. -- State  
 Sts. -- States  
 Sta. -- Station  
 Stas. -- Stations  
 Statist. -- Statistics, Statistical  
 Std. -- Standard  
 Stds. -- Standards  
 Sten. -- Stencil  
 Stockman. -- Stockman  
 Struct. -- Structure, Structural  
 Succ. -- Successful  
 Sum. -- Summary

Sup. -- Supplement  
 Super. -- Superior  
 Suppr. -- Suppression  
 Supt. -- Superintendent  
 Surg. -- Surgeon, Surgery, Surgical  
 Surv. -- Survey  
 Syph. -- Syphilis  
  
 T. -- Technical (except in title)  
 Tech. (in title) -- Technical, Technique  
 Téc. -- Técnico  
 Technol. -- Technologist, Technology  
 Temp. -- Temperate, Temperature  
 Tenn. -- Tennessee  
 Tex. -- Texas  
 Textb. -- Textbook  
 Ther. -- Therapeutics  
 Timberm. -- Timberman  
 Tob. -- Tobacco  
 Toxicol. -- Toxicology  
 Trab. -- Trabejo  
 Trans. -- Transactions  
 Transplan. -- Transplantation  
 Trop. -- Tropical  
  
 U. S. -- United States  
 USDA B. -- U. S. Dept. Agriculture  
           Bulletin  
 USDA C. -- U. S. Dept. Agriculture  
           Circular  
 USDA FB -- U. S. Dept. Agriculture  
           Farmers Bulletin  
 USDA Leaf. -- U. S. Dept. Agriculture  
           Leaflet  
 USDA R. Sec. f. -- U. S. Dept. Agriculture  
           Report Secretary for  
 USDA TB -- U. S. Dept. Agriculture  
           Technical Bulletin  
 USDA YB -- U. S. Dept. Agriculture  
           Yearbook  
 U. S. Pub. Health Serv. Rpts. -- U. S.  
           Public Health Service  
           Reports  
 Univ. -- University  
 Util. -- Utility, Utilities, Utilization  
  
 V. -- Volume  
 Va. -- Virginia  
 Val. -- Valley  
 Veg. -- Vegetable  
 Vet. -- Veterinary, Veterinarian  
 Vitic. -- Viticulture  
 Vocat. -- Vocation, Vocational  
 Vt. -- Vermont  
  
 W. Va. -- West Virginia  
 Wash. -- Washington  
 West. -- Western  
 Wis. -- Wisconsin  
 Wkly. -- Weekly  
 Wyo. -- Wyoming  
  
 YB -- Yearbook  
  
 Zool. -- Zoology, Zoological

NOTE: If title of periodical consists of one word, such as Microentomology, Phytopathology, Science, etc., it is not abbreviated.



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- \***BLACK LARDER BEETLE**, see **DERMESTES ATER** Deg.
- BLACK-LEG OF POTATO**, see **HYLEMIA CILICRURA** & **BLACK-LEG OF POTATO**
- \***BLACK-LEGGED TICK**, see **IXODES RICINUS SCAPULARIS** Say
- \***BLACK-MARGINED APHID**, see **MONELLIA COSTALIS** (Fitch)
- \***BLACK PEACH APHID**, see **ANURAPHIS PERSICAE-NIGER** (Smith)
- \***BLACK PECAN APHID**, see **MELANOCALLIS CARYAEFOLIAE** (Davis)
- BLACK SAWYER**, see **MONOCHAMUS SCUTELLATUS** (Say)
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\*RED-HUMPED CATERPILLAR, see  
SCHIZURA CONCIENNA (Abbott &  
Smith)

RED-HUMPED OAK CATERPILLAR, see  
SYMMERISTA ALBIFRONS  
(Abbott & Smith)

\*RED-LEGGED GRASSHOPPER, see  
MELANOPLUS FEMUR-RUBRUM  
(Deg.)

\*RED-LEGGED HAM BEETLE, see NE-  
CROBIA RUPIES (Deg.)

RED LOUSE OF CATTLE, see BOVIC-  
OLA BOVIS (L.)

RED LOUSE OF GOATS, see BOVICOLA  
CAPRAE (Gurlt)

\*RED MILKWEED BEETLE, see TETRA-  
OPES TETROPHTHALMUS (Forst.)

RED MITE OF POULTRY, see DER-  
MANYSSUS GALLINAE (Deg.)

\*RED-NECKED CANE BORER, see  
AGRILUS RUFCOLLIS (F.)

RED-PINE SAWFLY (CANADA), see  
NEODIPRION NANULUS Schedl

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